

RUMANIA/Inorganic Chemistry. Complex Compounds.

C

Abs Jour: Ref Zhur-Khim., No 15, 1958, 49796.

+ NaH_2PO_4 + 3NaNO_3 . On titration of I in aqueous glycerol solution with a solution of KH_2PO_4 the electric conductivity increases at first, due to hydrolysis of I with formation of HNO_3 , and decreases thereafter. On titration of I in aqueous solution of mannitol, with orthophosphoric acid, the curve has one inflection point at the ratio $\text{Di} : \text{PO}_4 = 2:1$, to which corresponds the formation of bisnuthyl phosphate and HNO_3 . If, on the other hand, a solution of Na_2HPO_4 is titrated with a solution of I, there is immediately formed DiPO_4 with concomitant neutralization of HNO_3 . During this reaction the electric conductivity remains constant up to the ratio $\text{Di} : \text{PO}_4 = 1:2$. On further titration the electric conductivity increases due to formation of free HNO_3 , and the curve shows an inflection

Card : 2/3

RUMANIA/Inorganic Chemistry. Complex Compounds.

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Abs Jour: Ref Zhur-Khin., No 15, 1958, 49796.

point. Since in alkaline medium a partial precipitation of $\text{Bi}(\text{OH})_3$ is also taking place the inflection point occurs too soon, but on addition of alcohol to the solution (about 30%) this inflection point is close to the equivalence point ($\text{Bi} : \text{PO}_4 = 1:2$). These conditions are the optimal for the determination of Bi^{3+} . -- D. Manole.

Card : 3/3

4

Distr: 4E2c(j)/4E2c

2)
Complexes of antimony with acridine. C. Drăgulescu and Q. Florea. *Acad. rep. populare Române, Div. chim. Timisoara, Studii cercet. chim.* 4, 9-13 (1967) (French summary).—Acridine (I) forms with the complex ions SbX_4^- and SbX_6^{3-} (common to acid solns. of Sb halides) complex compds. of the type $A \cdot [SbX_4] \cdot C_{11}H_9N$ (II) and $H[SbX_4] \cdot C_{11}H_9N$ (III). The following complexes were prepd. by treating $SbCl_3$ or $SbCl_5$ with a 4% soln. of I in EtOH, filtering the ppt., washing with H_2O contg. some HCl and I, and drying at 105° . II, where X is Cl, Br, or I, and III, where X is F, Cl, or Br. All are yellow to orange colored, cryst., and difficultly sol. in H_2O , EtOH, and $CHCl_3$. The complex $H[SbCl_4] \cdot C_{11}H_9N$ can be used to detect Sb_2O_3 . As little as $2.5 \mu g$ Sb in HCl, H_2SO_4 , or AcOH. An orange ppt. is formed when 1 drop of a 2% soln. of I is added to the Sb soln. contg. 1-2 drops of 20% KCl. Hg, Bi, Pb, Cu, Cd, Tl, and Ag interfere. Gary Coover

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2 May

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DRAGULESCU, C.

27
/ Electrostatic study of silver and thallium mixed pyrophosphate. C. Dragulescu and P. Tribunescu. Acad. rep. populare Romine, *Baza cercetării științ. Timisoara, Studii cercetării științ., Ser. științe chim.* 4, No. 2-4, 6-17(1959).— A mixt. of AgNO_3 and TlNO_3 , with the ratio $\text{Tl}^+:\text{Ag}^+ = 1$, treated with $\text{Na}_2\text{P}_2\text{O}_7$, forms mixed pyrophosphate of compn. $\text{Ag}_x\text{Tl}_{1-x}\text{P}_2\text{O}_7$ (I) stable in the air and sensitive to light. It is difficultly sol. in H_2O and inact. inorg. solvents. Potentiometric and conductometric titrations confirmed the presence of the pyrophosphate in the soln. and clarified the formation conditions. The soly. of I is detd. with the (G) concn. pile method: $S = 3.03 \times 10^{-4}\text{M}$. The soly. of $\text{Ag}_x\text{Tl}_{1-x}\text{P}_2\text{O}_7$ was detd. as 1.76×10^{-6} and $\text{Tl}_2\text{P}_2\text{O}_7$ as 2.07×10^{-6} . J. Herliac

7/10

422c

Distr: 4E26

Precipitation of ammonium uranates. I. The reaction between uranyl nitrate and NH_4OH . C. Dragulescu and I. Julean. Acad. rep. populare Romine, Baza cercetari stiinf. Timisoara, Studii cercetari stiinf., Ser. stiinta chim. 6, 41-60 (1969).—Potentiometric, conductometric, and anal. studies of the reaction between uranyl nitrate and NH_4OH indicate that the product is not ammonium diuranate. Initially a ppt. of the formula $(\text{NH}_4)_2\text{U}_2\text{O}_7$ is formed. On complete pptn. of U the initial ppt. is transformed into $(\text{NH}_4)_4\text{U}_3\text{O}_{12}$. R. A. Sanford

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"APPROVED FOR RELEASE: Friday, July 28, 2000

CIA-RDP86-00513R0004111200

DRAGULFSON, C

APPROVED FOR RELEASE: Friday, July 28, 2000

CIA-RDP86-00513R00041112000

DRAGULESCU, C., prof.; SIMONESCU, T.; MENESSY, I.

On the photocolorimetric titration of thorium with the pyrocatechol violet. Studii chim Timisoara 6 no.3/4:21-26 J1-D '59. (EEAI 10:4)

1. Academia Republicii Populare Romine, membru corespondent al Academiei R.P.R.; Comitetul de redactie, Studii si cercetari stiinte chimice, redactor responsabil (for Dragulescu)
(Colorimetry) (Thorium) (Chelatometry)
(Pyrocatechol Violet)

DRAGULESCU, C., prof.; SIMONESCU, T.; ANTON, R.

Titration of barium and lead with the use of sodium sulfate in the presence of the complex thorium-pyrocatechol violet (VPC) as indicator. Studii chim Timisoara 6 no.3/4:27-32 J1-D '59.

(EEAI 10:4)

1. Academia Republicii Populare Romine, membru corespondent al Academiei R.P.R.; Comitetul de redactie, Studii si cercetari stiinte chimice, redactor responsabil (for Dragulescu)
(Barium) (Lead) (Sodium sulfates)
(Pyrocatechol Violet) (Chelatometry)
(Complex compounds)

DRAGULESCU, C., prof.; JULEAN, I.

Studies on the precipitation of ammonium uranates. II. Action of ammonia on uranyl iodide. Studii chim Timisoara 6 no.3/4:33-42 (EEAI 10:4)
J1-D '59.

1. Academia Republicii Populare Romine, membru corespondent al Academiei R.P.R.; Comitetul de redactie, Studii si cercetari stiinte chimice, redactor responsabil (for Dragulescu). 2. Comitetul de redactie, Studii si cercetari stiinte chimice, secretar stiintific (for Julean)

(Ammonium uranates)	(Ammonia)	(Conductometric analysis)
(Potentiometer)	(Uranyl compounds)	(Iodides)

DRAGULESCU, C., prof.; FLOREA, I.

Indirect determination of antimony by the colorimetric method. Studii
chim Timisoara 6 no.3/4:43-46 J1-D '59. (EEAI 10:4)

1. Academia Republicii Populare Romine, membru corespondent al Academiei
R.P.R.; Comitetul de redactie, Studii si cercetari stiinte chimice,
redactor responsabil (for Dragulescu)
(Antimony) (Colorimetry) (Iodine)
(Carbon tetrachloride)

DRAGULESCU, C., prof.; SIMONESCU, T.; LAZAR-JUCU, D.

Titration of thorium with hypophosphoric acid in the presence of the
pyrocatechin violet "VPC." Studii mat Timisoara 7 no.1/2:15-20
Ja-Je '60. (EEAI 10:4)

1. Membru corespondent al Academiei R.P.R., Comitetul de redactie,
Studi si cercetar, Stiinte chimice, Baza de Cercetari stiintifice
Timisoara, redactor responsabil (for Dragulescu).
(Thorium) (Pyrocatechol Biolet) (Hypophosphoric acid)

DRAGULESCU, C., prof.; SIMONESCU, T.; ANTON, R.

Utilization of the anthranilic-N, N-diacetic acid as the reagent in chelatometry. I. Direct chelatometric titration of copper with the anthranilic-N, N-diacetic acid and murexide. II. Direct chelatometric titration of thorium with the pyrocatechin Violet. III. Chelatometric determination of nickel by the retitration with a solution of copper in the presence of murexide. Studii chem Timisoara 6 no.1/2:21-39 Ja-Je '60. (EEAI 10:3)

1. Academia R.P.R., membru corespondent al Academiei Republicii Populare Romine; Comitetul de redactie, Studii si cercetari stiinte chimice, redactor responsabil (for Dragulescu)
(Anthranilic acid) (Acetoacetic acid) (Murexide)
(Nickel) (Chelatometry) (Copper) (Thorium)
(Pyrocatechol Violet)

DRAGULESCU, C., prof.; JULEAN, I.

Studies of the precipitation of ammonium uranates. I. Reaction between uranyl nitrate and ammonia. Studii chim Timisoara 6 no.1/2: 41-50 Ja-Je '60. (EEAI 10:3)

1. Academia R.P.R., membru corespondent al Academiei Republicii Populare Romine; Comitetul de redactie, Studii si cercetari stiinte chimice, redactor responsabil (for Dragulescu). 2. Comitetul de redactie, Studii si cercetari stiinte chimice, secretar stiintific al Comitetului de redactie (for Julean)
(Ammonium uranates) (Uranyl nitrate) (Ammonia)

DRAGULESCU, C., prof.; TRIBUNESCU, P.

On the cobalt cyanides mixed with silver and thallium. Studii chim
Timisoara 6 no.1/2:59-70 Ja-Je '60. (EEAI 10:3)

1. Academia R.P.R., membru corespondent al Academiei Republicii
Populare Romine; Comitetul de redactie, Studii si cercetari stiinte
chimice, redactor responsabil (for Dragulescu)
(Potassium cyanocobaltate) (Ions) (Silver)
(Thallium) (Conductometric analysis)

DRAGULESCU, C., prof.; POMOJE, R.

Conductometric determination of ammonia with mercury chloride. Studii
chim Timisoara 6 no.1/2:71-76 Ja-Je '60. (EAI 10:3)

1. Academia R.P.R., membru corespondent Academiei Republicii Populare
Romine; Comitetul de redactie, Studii si cercetari stiinte chimice,
redactor responsabil (for Dragulescu).
(Mercury chlorides) (Ammonia)
(Conductometric analysis)

DRAGULESCU, C., prof.; SIMONESCU, T.; MENESSY, I.; ANTON, R.

Metallic complexes of the anthranilic-N,N-diacetic acid. II. On the
complex $[\text{Fe}^{\text{III}}\text{-ANDA}]$. Studii mat Timisoara 7 no.1/2:9-13 Ja-Je '60.
(EEAI 10:4)

1. Membru correspondent al Academiei R.P.R., Comitetul de redactie,
Studii si cercetari, Stiinte chimice, Baza de Cercetari stiintifice
Timisoara, redactor responsabil (for Dragulescu).
(Complex compounds) (Benzisoxazole) (Acetoacetic acid)
(Iron)

DRAGULESCU, C., prof.; SIMONESCU, T.; MENESSY, I.; ANTON, Rozalia

Metallic complexes of the anthranilic-N, N-diacetic acid. Note III.
Studii chim Timisoara 8 no.1/2:9-15 Ja-Je '61.

1. Membru corespondent al Academiei Republicii Populare Romine; Comitetul de redactie, Studii si cercetari, stiinte chimice [Academia Republicii Populare Romine, Baza de Cercetari Stiintifice Timisoara], redactor responsabil (for Dragulescu).

(Organometallic compounds) (Anthranilic acid)
(Acetoacetic acid)

DRAGULESCU, C., prof.; SIMONESCU, T.; MENESSY, I.

Photocolorimetric determination of copper with ANDA. Studii chim Timisoara 8 no.1/2:113-116 Ja-Je '61.

1. Membru corespondent al Academiei Republicii Populare Romine; Comitetul de redactie, Studii si cercetari, stiinte chimice [Academia Republicii Populare Romine, Baza de Cercetari Stiintifice Timisoara], redactor responsabil (for Dragulescu).

(Copper) (Anthranilic acid) (Acetoacetic acid)

DRAGULESCU, C., prof.; FLOREA, I.

Colorimetric determination of Rivanol with sodium hypochlorite.
Studii chim Timisoara 8 no.1/2:123-126 Ja-Je '61.

1. Membru corespondent al Academiei Populare Romine; Comitetul de redactie, Studii si cercetari, stiinte chimice [Academia Republicii Populare Romine, Baza de Cercetari Stiintifice Timisoara], redactor responsabil (for Dragulescu).

(Diaminoethoxyacridine lactate)
(Sodium hypochlorite)

DRAGULESCU, C., prof.

A new method for the gravimetric determination of silver. Studii chim Timisoara 8 no.3/4:191-193 J1-D '61.

1. Membru corespondent al Academiei R.P.R., membru al Comitetului de redactie si redactor responsabil, "Studii si cercetari, Stiinte chimice" (Timisoara) (for Dragulescu)

DRAGULESCU, C., prof.; MITRANESCU, Maria

Potentiometric titration of Tl^{3+} with hydrazine sulfate. Studii chim Timisoara 8 no.3/4:195-199 J1-D '61.

1. Membru corespondent al Academiei R.P.R., membru al Comitetului de redactie si redactor responsabil, "Studii si cercetari, Stiinte chimice" (Timisoara) (for Dragulescu)

DRAGULESCU, C.; LAZAR-JUCU, D.

Study of the formation of bismuthyl chromate in solution.
Bul St si Tehn Tim 7:29-37 '62.

DRAGULESCU, C.; SIMONESCU, T.; MENESSY, I.; ANTON, R.

Metallic complexes of anthranildiacetic acid and their
analytic utilization. Rev chimie 7 no. 1: 161-167
'62.

1. Academie de la R.P.R., Base scientifique de Timisoara.
2. Membre Correspondant de l'Academie de la R.P.R. (for
Dragulescu)

DRAGULESCU, G., prof.; MITRANESCU, Maria

New indicators for the titration of hydrazine sulfate. Studii chim Timisoara 9 no.1/2:13-20 Ja-Je '62.

1. Membr corespondent al Academiei R.P.R., membru al Comitetului de redactie si redactor responsabil, "Studii si cercetari, Stiinte chimice" - Timisoara - (for Dragulescu).

DRAGULESCU, C., prof.; MITRANESCU, Maria

Potentiometric titration of VO_3 with hydrazine sulfate. Studii chim Timisoara 9 no.1/2:21-25 Ja-Je '62.

1. Membru corespondent al Academiei R.P.R., membru al Comitetului de redactie si redactor responsabil, "Studii si cercetari, Stiinte chimice" - Timisoara - (for Dragulescu).

DRAGULESCU, C., prof.; SIMONESCU, T.; VIUCEANU, Nicoleta

Spectrophotometric determination of indium with Pyrocatechin Violet.
Studii chim Timisoara 9 no.1/2:27-31 Ja-Je '62.

1. Membru corespondent al Academiei R.P.R., membru al Comitetului de redactie si redactor responsabil, "Studii si cercetari, Stiinte chimice" - Timisoara - (for Dragulescu).

DRAGULESCU, C., prof.; POLICEC, Septimia

Enthalpimetric titration of the diacid weak bases (alkaloids, etc.).
Studii chim Timisoara 9 no.1/2:33-40 Ja-Je '62.

1. Membru corespondent al Academiei R.P.R., membru al Comitetului de redactie si redactor responsabil, "Studii si cercetari, Stiinte chimice" - Timisoara- (for Dragulescu).

DRAGULESCU, C., prof.; MEMESSY, I.; ANTON, Rozalia; SIMONESCU, T.

Metallic complexes of the diacetic anthranilic acid. Note IV. Reaction of the complex Fe-ANDA with H_2O_2 . Studii chim Timisoara 9 no.1/2:57-66 Ja-Je '62.

1. Membru corespondent al Academiei R.P.R., membru al Comitetului de redactie si redactor responsabil, "Studii si cercetari, Stiinte chimice" - Timisoara - (for Dragulescu).

DRAGULESCU, C., prof.; SIMONESCU, T.; VILCEANU, Nicoleta

Metallic complexes of the diacetic anthranilic acid. Note V. The complex In-ANDA. Studii chim Timisoara 9 no.1/2:67-70 Ja-Je '62.

1. Membru corespondent al Academiei R.P.R., membru al Comitetului de redactie si redactor responsabil, "Studii si cercetari, Stiinta chimice" - Timisoara- (for Dragulescu).

DRAGULESCU, C., prof.; JULEAN, I., ing.

Precipitation of ammonium uranates. III. Reaction of uranyl perchlorate and uranyl acetate with ammonia. IV. Reactions of uranyl nitrate acetate with aliphatic amines. Studii chim Timisoara 9 m.1/2:71-90 Ja-Je '62.

1. Membru corespondent al Academiei R.P.R. si membru al Comitetului de redactie, "Studii si cercetari, Stiinte chimice" - Timisoara - (for Dragulescu). 2. Secretar stiintific de redactie, "Studii si cercetari, Stiinte chimice", Timisoara - (for Julean).

DRAGULESCU, C.; TRIBUNESCU, P.; MENESSY, I.

Solubility and thermal comportment of beryllium double oxalates with potassium, sodium, and ammonium. Studii chim Timisoara 9 no.3/4:197-204 J1-D '62.

1. Membru corespondent al Academiei R.P.R. (for Dragulescu).

DRAGULESCH, C.; FLOREA, I.

On the halogens and pseudohalogens of 2-ethoxy-6,9-diaminoacridine.
Studii chim Timisoara 9 no.3/4:205-217 J1-D '62.

1. Membru corespondent al Academiei R.P.R. (for Dragulescu).

DRAGULESCU, C.; FLOREA, I.

Conductometric titration of lactate of 2-ethoxy-6,9-diaminoacridine (Rivanol). Studii chim Timisoara 9 no.3/4:219-225 J1-D '62.

1. Membru corespondent al Academiei R.P.R. (for Dragulescu).

DRAGULESCU, C.; FLOREA, I.

On the metallo-cyanur complex of the 2-ethoxy-6,9-diaminoacridine.
Pts. 3-4. Studii chim Timisoara 9 no.3/4:227-255 J1-D '62.

1. Membru corespondent al Academiei R.P.R. (for Dragulescu).

DRAGULESCU, C., acad.; SIMONESCU, T.; POLICEC, Septimia

On the reaction between anthranil-N acid, N-diacetic, (ANDA) and
chloride of zirconyl in ethanolic medium. Pt. 1. Studii chim
Timisoara 10 no.1:7-11 Ja-Je '63.

DRAGULESCU, C., acad.; JULEAN, I.; VILCENAU, Nicoleta

On the uranyl-hypophosphite complex. Pt.1. Studii chim Timisoara
10 no.1:13-21 Ja-Je '63.

DRAGULESCU, C., acad.; ENACHE, M.; SIMONESCU, T.

Obtaining sodium hypophosphates. Studii chim Timisoara 10 no.1:
23-30 Ja-Je '63.

DRAGULESCU, C., acad.; FLOREA, I.

~~Excerpt from the book~~

On the complex metalocyanides of 2-ethoxy-6, 9-diaminoacridine.
Pt. 5. Studii chim Timisoara 10 no.1:31-43 Ja-Je '63.

DRAGULESCU, C., acad.; KYRI, I.; OPRESCU, M.

On the obtention of niobium and tantalum compounds by chlorination.
Studii chim Timisoara 10 no.1:45-53 Ja-Je '63.

On the separation of niobium from tantalum on changeable resins
of anions. 55-59

DRAGULESCU, C., acad.; TRIBUNESCU, P.; GOGU, Olga

Study of the serpentines in Tisovita (Banat) in view of the chemical evaluation of the components. Bul St si Tehn Tim 9 no.1:29-34 Ja-Je '64.

1. Submitted June 29, 1964.

DRAGULESCU, C.; KYRI, I.; OPRESCU, M.

Obtaining and separating niobium and tantalum compounds. Rev
chimie Min petr 15 no.8:497-501 Ag '64

ABSTRACT: A procedure is described for the preparation and purification of Nb and
mineral aggregates found in the Banat region of Rumania. Due to

"APPROVED FOR RELEASE: Friday, July 28, 2000

CIA-RDP86-00513R0004111200

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IN THE NAME OF THE PEOPLE
OF THE UNITED STATES OF AMERICA
V. JAMES EARL RAY
U.S. DISTRICT COURT
SOUTHERN DISTRICT OF NEW YORK
JULY 28, 2000

APPROVED FOR RELEASE: Friday, July 28, 2000

CIA-RDP86-00513R0004111200

DRAGULESCU, Coriolan; COSTINESCU, Pol xonia

Determination of gallium in bauxite with the aid of violet crystal. Rev chimie Roum 10 no.1:67-75 Ja '65.

1. Polytechnic Institute and Petroleum, Gas, and Geology Institute, Bucharest. Submitted April 8, 1964.

DRAGULESCU, C., acad. prof.

Eighth International Conference of Coordinative Chemistry.
Rev chimie Min petr 16 no.1:44-45 Ja '65.

STANESCU, I. (Sibiu); STANESCU, Ilie, Prof. (Sibiu); CUCOS, Stefan, prof.
(Birlad); CASANDROIU, T.C., student (Bucuresti); IONESCU-TIU, C.
DRAGULESCU, Emilian, elev (Baia de Arama); ATANASIU, Ionel, prof.
(Gugesti); BATINETU, D.M., student (Bucuresti)

Problems and exercises proposed for grades 5-8. Gas mat B 14
no. 10:628-630 0'63.

L 47453-66 EWT(d)/EWT(m)/ENP(f)/T D3

ACC NR: AP6030625 (A) SOURCE CODE: UR/0413/66/000/016/0121/0121

INVENTOR: Kaplin, V. F.; Dragun, A. S. 43
B

ORG: non

TITLE: Air filter for internal combustion engines. Class 46, No. 185151 [announced
by Melitopol' Engine Plant (Melitopol'skiy motornyy zavod)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 16, 1966, 121

TOPIC TAGS: internal combustion engine, air filter, industrial filter

ABSTRACT: This Author Certificate introduces an air-filter for internal combustion engines, consisting of a cylindrical housing which contains a central suction pipe, an oil bath, sediment collector, a filtering element and an outlet. To produce cleaner air at all rates of engine operation, an oil collector with a spring-supported movable diaphragm and an outlet are installed in the upper part of the oil bath, forming uniform-sized channels with the suction pipe and variable-sized channels with the diaphragm. Orig. art. has: 1 figure. [SA]

SUB CODE: 21, 23/ SUBM DATE: 26Apr65

Card 1/1 *ecfe* UDC: 621.43.038.771

DRAGUN, Wiktor

Advantages of irrigating poplar plantations with sewage waters.
Zesz probl post nauk roln 47:169-181 '64

1. Institute of Soil Improvement and Grasslands, Regional Research
Center, Wroclaw.

L 32160-66 EWT(m)/EWP(t)/ETI IJP(c) JD

ACC NR: AP6011522

SOURCE CODE: UR/0382/66/000/001/0137/0141

AUTHOR: Dragunkina, N. I.; Tir, L. L.

ORG: none

TITLE: Experimental investigation of the conditions of similarity of the melt flow in an induction furnace 18

SOURCE: Magnitnaya gidrodinamika, no. 1, 1966, 137-141

TOPIC TAGS: induction furnace, ~~similarity theory~~, induction melting, LIQUID FLOW, FLOW VELOCITY, GRAVITATION EFFECT, ALUMINUM 21

ABSTRACT: Experimental measurements describing the behavior of aluminum in induction furnaces are used to clarify the significance of the various criteria, especially the relative frequency and gravitation, needed in establishing similarity conditions. The range of data is sufficiently broad for use in the design of steel furnaces. It has been found that in a range of frequencies from 50 to 2500 Hz the effects of viscosity can be neglected provided the Reynolds number of the flow exceeds 20,000, which is the case in many aluminum, steel and lead furnaces. The effect of gravitation was found to be small except in cases where a large meniscus occurs. Dependence of the flow velocity on the meniscus height was measured and shown to reach a maximum of 15% reduction of the flow computed without taking gravitation into account. It is shown that flow velocity is not strongly dependent on the amount of heat circulation. Somewhat different

Card 1/2

UDC: 621.365.5:538.4

L 32160-66

ACC NR: AP6011522

effects were found in models of inductors with parallel sections. Engineer L. K. Chentsova also took part in the work. Orig. art. has: 4 figures.

SUB CODE: 20,11/ SUBM DATE: 25May65/ ORIG REF: 002

Card 2/2 *h88*

DOERYNINA, Tat'yana Aleksandrovna; VOL'NOV, I.I., kand. khim.
nauk, otv.red.; DRAGUNOV, E.S., red.

[Lithium peroxide] Perekis' litia. Moskva, izd-vo "Nauka,"
1964. 49 p. (MIRA 17:7)

RUMENIA / Analytical Chemistry. Analysis of Inorganic Substances.

E-2

Abstr Jour : Ref Zhur - Khim., No 15, 1958, No 49995

Author : Dragulescu, T.; Dragoi, I.

Inst : Timisoara Polytechnical Institute.

Title : New Method of Determination of Monovalent Thallium with Chloramino T.

Orig Pub : Bul. stint. si tehn. Inst. politehn. Timisoara, 1956, 1, No. 2, 271-273

Abstract : Tl^+ is determined by oxidimetric titration in an acid medium with a solution of chloramino T in the presence of indigo-sulfonic acid as an indicator. 0.02-0.07 g. of the salt of Tl^+ is dissolved in 50 ml. of HCl, the solution is heated to 30-40° and titrated with 0.1 N solution of chloramino T until the blue color of the solution changes into pale yellow. The titer of the solution of chloramino T is found iodometrically. The error of the determination of Tl^+ is plus/minus 0.2%. -- B. Manolo.

Card 1/1

DRAGULIN, M., ing.

Casting of cylinder bushings for diesel engines. Metalurgia
constr mas 15 no.8:506-507 Ag '63.

DRAGULIN, Mircea, ing.

The inverse curvature models for foundries. Metalurgia
constr mas 14 no.6:501-504 Je '62.

1. Uzina 23 August, Bucuresti.

DRAGULJIN, Mircea

Casting of lugs made of hard crusted pig iron. Metalurgia
constr mas 14 no.8:703-704 2g 142.

1. ~~U.S. Army~~ ~~Angew.~~

DRAGULIN, M., ing.

Pneumatic device for closing and opening metallic molds.
Metalurgia constr mas 15 no.8:508 Ag '63.

SFINTEANU, Dragos, ing.; DRAGULIN, Mircea, ing.

Behavior of crankshafts in diesel engines depending on material assembling systems, and working conditions. Constr mas 15 no.10: 698-701 0 '63.

1. The "23 August" Plant, Bucharest.

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32719

S/560/61/000/009/009/009

DO45/D114

9.6150

21.6000

AUTHORS: ~~Dragun, G. S.~~, Kurnosova, L. V., Logachev, V. I., Razorenov, L. A.,
Sirotkin, I. A., and Fradkin, M. I.

TITLE: Equipment for investigating the nuclear components of cosmic rays
installed on space rockets and artificial earth satellites

SOURCE: Akademiya nauk SSSR. Iskusstvennyye sputniki Zemli. No. 9,
Moscow, 1961, 86-110

TEXT: Equipment installed on the third Soviet artificial Earth satellite
and on space rockets, for investigating the nuclear components of cosmic
rays, is described. The results of the measurements carried out with the
aid of the described devices have already been published in previous issues
of the journal. All the devices consist of the following basic elements:
a charged particle detector (integral Cherenkov counter); an electronic
system for amplifying signals, for selecting the required ionizing events and
for storing them; and elements for matching the photomultiplier output with
the input of the electronic circuit and the output of this circuit with the
radiotelemetric system. A block diagram of a unit for recording the nuclei

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Equipment for investigating the ...

of cosmic rays is given in fig. 1. The Cherenkov counter can be used for investigating temporary changes in the intensity of the nuclear component and the dependence of this intensity on distance from the Earth. The advantages of the counter are that the radiotechnical device used is relatively simple and that a sufficiently large number of particles can be registered per unit of time. The disadvantage of its use is that the quantity of light, divided in the detector, and the number of photoelectrons taken from the cathode of the photomultiplier is small, and consequently the value of the output pulse is small and large statistical fluctuations occur. A device for measuring the characteristics of Cherenkov counters and several aspects of calibration are described and illustrated. It is stated that the instruments for measuring the nuclear components of cosmic radiation installed on the first and second space rockets had an additional channel designed for registering radiation in an area of increased radiation intensity. A sharp increase in intensity was observed at distances of $27 \cdot 10^3$ km (first rocket) and $17 \cdot 10^3$ km (second rocket) in an area later called the inner radiation belt. A block diagram of one version of the electronic system is shown in fig. 17. As can be seen from the figure, information on the condition of

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D045/D114

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the triggers of the accumulating system can be transmitted through the radiotelemetric system. The following parts of the radio system are described and illustrated: emitter follower; flip-flop-cells; and summation cells. The described parts were used in designing devices for measuring nuclei beyond the edge of the atmosphere; depending on the problems set and the actual conditions, a final selection of the parameters was made and essential changes in individual elements carried out. Two diagrams are included showing the arrangement of devices for registering nuclei with (1) $Z \geq 5$ and $Z \geq 15$, and (2) $Z > 2$. The authors thank radio technician V. Marevskiy, laboratory worker V. Razhin and designer G. Yegorov for their cooperation. There are 29 figures and 7 Soviet references.

SUBMITTED: April, 17, 1961

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USSR/Chemical Technology. Chemical Products and Their Application -- Food industry,
I-28

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 6735

Author: Dragunov, A. M.

Institution: None

Title: Salting Process in Mechanized Systems of Salting of Fish

Original

Publication: Ryb. kh-vo, 1956, No 1, 81-83

Abstract: On the basis of experiments concerned with kinetics of brine downflow in stepwise salting, and also on barrel salting of anchovy and sardelles, a conveyor-belt salting of these varieties of fish is proposed in composite mechanized handling and salting process. In planning an experimental unit the following operating conditions of salting are recommended: duration of salting on conveyor belt 2 hours; depth of the layer of fish 10 cm; rate of salt application 10-15%; amount of brine discharged on the belt, 17-23% on the basis of weight of the fresh fish. The salting belt should be network construction with holes 3-5 mm in diameter.

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